

HISTORIC AMERICAN ENGINEERING RECORD

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Upper Mississippi River Nine-Foot Channel Project,
Lock and Dam Number 5
Minnieska vicinity
Winona County, Minnesota
Buffalo County, Wisconsin

HAER No. MN-22

NOTE: Photographs MN-22-1 through MN-22-56 were taken by Clayton B. Fraser,
photographer, Fraserdesign, August 1987

MN-22-1	OVERALL VIEW OF DAM AND LOCKS FROM UPSTREAM GUIDEWALL, LOOKING SOUTHEAST, DOWNSTREAM
MN-22-2	OVERALL VIEW OF DAM, LOOKING SOUTHEAST, DOWNSTREAM
MN-22-3	DETAIL VIEW OF DAM, SHOWING ROLLER AND TAINTER GATES, PIERS, HEADHOUSES AND DAM BRIDGE, LOOKING SOUTHEAST, DOWNSTREAM
MN-22-4	DETAIL VIEW OF DAM, SHOWING ROLLER GATES, PIERS, HEADHOUSES AND DAM BRIDGE, LOOKING EAST, DOWNSTREAM
MN-22-5	DETAIL VIEW OF DAM, SHOWING ROLLER GATE HEADHOUSES, WITH AUXILIARY LOCK IN FOREGROUND, LOOKING NORTHEAST, UPSTREAM
MN-22-6	DETAIL VIEW OF DAM, SHOWING ROLLER GATES, GATE PIERS AND HEADHOUSES, LOOKING EAST, UPSTREAM
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MN-22-8	DETAIL VIEW OF DAM, SHOWING ROLLER GATES, GATE PIERS AND HEADHOUSES, LOOKING NORTHEAST, UPSTREAM
MN-22-9	DETAIL VIEW OF HEADHOUSE/PIER, SHOWING ROLLER GATE AND DAM BRIDGE, LOOKING NORTHEAST
MN-22-10	DETAIL VIEW OF HEADHOUSE/PIER, SHOWING ROLLER GATE TRACK, LOOKING NORTHEAST
MN-22-11	DETAIL VIEW OF HEADHOUSE/PIER, SHOWING ROLLER GATE AND BRIDGE GIRDERS, LOOKING EAST
MN-22-12	DETAIL VIEW OF ROLLER GATE, SHOWING GATE FLANGE AND TUBE, ROLLER TRACK, CHAIN AND GATE HEATER, LOOKING EAST

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MN-22-13 INTERIOR VIEW OF HEADHOUSE, SHOWING ROLLER GATE LIFTING
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GEAR, LOOKING SOUTHEAST

MN-22-15 INTERIOR VIEW OF HEADHOUSE, SHOWING ROLLER GATE CHAIN, LOOKING
SOUTH

MN-22-16 DETAIL VIEW OF TANTER GATE, SHOWING GATES, PIERS, BRIDGE GIRDERS
AND ROLLER GATE BULKHEADS STORED ON PIER ABUTMENTS, LOOKING WEST

MN-22-17 DETAIL VIEW OF TANTER GATE, SHOWING GATES, GATE ARMS, PIERS,
GATE CHAINS AND SWITCHES, AND BRIDGE GIRDERS, LOOKING SOUTHWEST

MN-22-18 DETAIL VIEW OF TANTER GATE, SHOWING GATES, GATE ARMS, PIERS,
GATE CHAINS AND SWITCHES, AND BRIDGE GIRDERS, LOOKING NORTHWEST

MN-22-19 DETAIL VIEW OF TANTER GATE, SHOWING GATES, GATE ARMS, PIERS AND
GATE CHAINS, LOOKING SOUTHWEST

MN-22-20 DETAIL VIEW OF TANTER GATE, SHOWING GATE ARMS, PIERS, TRUNNION
PINS, AND GATE GAUGE, LOOKING SOUTHWEST

MN-22-21 DETAIL VIEW OF TANTER GATE, SHOWING TRUNNION PIN, LOOKING
SOUTHWEST

MN-22-22 DETAIL VIEW OF TANTER GATE, SHOWING GATE GAUGE, LOOKING
SOUTHWEST

MN-22-23 VIEW OF ROLLER GATE BULKHEADS STORED ON TANTER GATE PIER
ABUTMENTS, LOOKING SOUTHWEST

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CARS AND TRACKS, LOOKING NORTHEAST

MN-22-25 VIEW OF MOVABLE CRANE ON DAM BRIDGE, WITH ROLLER GATE
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MN-22-26 VIEW OF TANTER GATE HOIST CAR (LEFT FOREGROUND), BULKHEAD HOIST
CAR (LEFT BACKGROUND) AND FLATCAR ON DAM BRIDGE, LOOKING EAST

MN-22-27 INTERIOR VIEW OF TANTER GATE HOIST CAR, LOOKING EAST

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MN-22-28 INTERIOR VIEW OF BULKHEAD HOIST CAR, LOOKING WEST

MN-22-29 OVERALL VIEW OF EARTH DIKE 9 FROM DAM BRIDGE, LOOKING EAST

MN-22-30 OVERALL VIEW OF LOCK, WITH DAM IN BACKGROUND, LOOKING SOUTHEAST,
DOWNSTREAM

MN-22-31 INTERIOR VIEW OF MAIN LOCK, WITH CENTRAL CONTROL STATION IN
RIGHT BACKGROUND, LOOKING SOUTHEAST, DOWNSTREAM

MN-22-32 INTERIOR VIEW OF AUXILIARY LOCK, LOOKING SOUTH, DOWNSTREAM

MN-22-33 VIEW OF DOWNSTREAM GUIDEWALL OF MAIN LOCK, LOOKING SOUTHWEST

MN-22-34 VIEW OF UPSTREAM GUIDEWALL OF MAIN LOCK, LOOKING NORTHWEST

MN-22-35 VIEW OF UPSTREAM GUIDEWALL BULKHEAD OF MAIN LOCK, SHOWING TILE
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MN-22-36 VIEW OF MAIN LOCK UPSTREAM MITER GATE AND ARM, LOOKING SOUTHEAST

MN-22-37 VIEW OF MAIN LOCK UPSTREAM GATE STATION AND MITER GATE, LOOKING
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MN-22-38 VIEW OF AUXILIARY LOCK MITER GATE, WITH MAIN LOCK UPSTREAM MITER
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MN-22-40 VIEW OF MAIN LOCK TAINTER VALVE MACHINERY, LOOKING EAST

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MN-22-42 VIEW OF BOAT LAUNCH, LOOKING EAST

MN-22-43 VIEW OF STAGE RECORDER AT END OF DOWNSTREAM GUIDEWALL, LOOKING
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MN-22-44 VIEW OF STAGE RECORDER AT END OF UPSTREAM GUIDEWALL, LOOKING
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MN-22-45 VIEW OF UPSTREAM GUIDEWALL, SHOWING LIGHT STANDARD, LOOKING NORTH

MN-22-46 OVERALL VIEW OF ESPLANADE, LOOKING SOUTH

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MN-22-47 OVERALL VIEW OF ESPLANADE, LOOKING NORTHEAST

MN-22-48 VIEW OF CENTRAL CONTROL STATION, LOOKING EAST

MN-22-49 VIEW OF CENTRAL CONTROL STATION, WITH MAIN LOCK IN FOREGROUND,
LOOKING SOUTHWEST

MN-22-50 VIEW OF CENTRAL CONTROL STATION, LOOKING SOUTHEAST

MN-22-51 VIEW OF MEMORIAL PLAQUE ON WEST WALL OF CENTRAL CONTROL STATION,
LOOKING EAST

MN-22-52 INTERIOR VIEW OF CENTRAL CONTROL STATION, FIRST FLOOR, SHOWING
GENERATOR ENGINE AND CENTRAL CONTROL PANEL, LOOKING SOUTH

MN-22-53 INTERIOR VIEW OF CENTRAL CONTROL STATION, GIVING A DETAIL VIEW
OF THE CENTRAL CONTROL PANEL, LOOKING WEST

MN-22-54 INTERIOR VIEW OF CENTRAL CONTROL STATION, GIVING A DETAIL VIEW
OF THE CENTRAL CONTROL PANEL, LOOKING SOUTHWEST

MN-22-55 INTERIOR VIEW OF CENTRAL CONTROL STATION, BASEMENT, LOOKING NORTH

MN-22-56 VIEW OF PEDESTRIAN OVERPASS OVER RAILROAD TRACKS, LOOKING
NORTHWEST

The following are photocopies of photographs, courtesy of the U. S. Engineer
Office, St. Paul, Minnesota. Original prints are located at Mississippi River
Lock and Dam Number 5. Photographer unknown.

MN-22-57 VIEW OF PUMPS UNWATERING COFFERDAM. April 17, 1934

MN-22-58 GENERAL VIEW. July 18, 1934

MN-22-59 VIEW OF FOUNDATION FOR ROLLER GATE SECTION - COFFERDAM NO. 3.
September 1934

MN-22-60 GENERAL VIEW OF COFFERDAM NO. 3, LOOKING SOUTHEAST. November 2,
1934

MN-22-61 VIEW SHOWING ERECTION OF LAST TAINTER GATE. December 4, 1934

MN-22-62 VIEW SHOWING WINTER PROTECTION FOR CONCRETE, PIERS NO. 1 AND 2.
December 17, 1934

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The following are photocopies of original construction drawings. Original prints are in the possession of U. S. Army Corps of Engineers, St. Paul District, St. Paul, Minnesota. Photographer unknown.

MN-22-63	LOCK - INDEX (ML-5-0/1-FS), April 1937
MN-22-64	DAM - INDEX (ML-5-0/2-FS), June 1937
MN-22-65	LOCK - PROJECT LOCATION (ML-5-10/1-FS), September 1932
MN-22-66	SITE MAP (ML-5-10/2-FS), September 1932
MN-22-67	LOCKKEEPERS' DWELLINGS - LOCATION PLAN (ML-5-10/10-FS), April 1937
MN-22-68	DAM - SITE MAP (ML-5-10/17-FS), August 1937
MN-22-69	LOCK - DESIGN DATA FOR TYPICAL SECTIONS (ML-5-20/A-FS), September 1932
MN-22-70	LOCK - GENERAL PLAN (ML-5-20/1-FS), April 1937
MN-22-71	LOCK - LAYOUT OF ELECTRICAL MANHOLES AND CONDUIT SYSTEM (ML-5-29/1-FS), August 1932
MN-22-72	LOCK - ELECTRICAL SYSTEM - CONTROL SWITCH CABINET - PANEL ARRANGEMENT AND DETAILS (ML-5-29/33-FS), March 1934
MN-22-73	LOCK - ELECTRICAL SYSTEM - SWITCHBOARD-FRONT ELEVATION (ML-5-29/40-FS), March 1934
MN-22-74	ESPLANADE UTILITIES - GENERAL PLAN (ML-5-38/2-FS), August 1937
MN-22-75	ESPLANADE - SITE MAP (ML-5-38/9-FS), January 1938
MN-22-76	ESPLANADE - GENERAL PLAN (ML-5-38/10-FS), January 1938
MN-22-77	ESPLANADE - LANDSCAPING (ML-5-38/17-FS), January 1938
MN-22-78	DAM - DESIGN DATA FOR TAINTER GATE PIERS (ML-5-40/C-FS), August 1933
MN-22-79	DAM - GENERAL PLAN (ML-5-40/C-FS), August 1933

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MN-22-80	DAM - SECTION & ELEVATION AT ROLLER GATE PIER (ML-5-40/2-FS), August 1933
MN-22-81	DAM - SECTION AT TAINTER GATE PIER (ML-5-40/3-FS), August 1933
MN-22-82	DAM - PILE SPACING (ML-5-40/4-FS), August 1933
MN-22-83	DAM - PIER NO. 35 ABUTMENT - MASONRY DETAILS (ML-5-40/20-FS), August 1933
MN-22-84	DAM - OPERATING HOUSE - PLAN & ELEVATION (ML-5-41.1-FS), August 1933
MN-22-85	DAM - TAINTER GATE OPERATING MACHINERY - HOIST CAR ELECTRIFICATION ASSEMBLY (ML-5-55/2), no date
MN-22-86	DAM - TAINTER GATE OPERATING MACHINERY - HOIST CAR NO. 2 - ELECTRIFICATION HOIST CLUTCH MODIFICATION (ML-5-55/6), March 1956
MN-22-87	DAM - TAINTER GATE OPERATING MACHINERY - TRAVELING HOIST - AMERICAN TYPE ASSEMBLY (ML-5-55/111-FS), February 1938
MN-22-88	DAM - POWER HOUSE - ELEVATIONS & SECTIONS (ML-5-70/1-FS), August 1933
MN-22-89	DAM - POWER HOUSE - PLANS-BASEMENT, FIRST FLOOR & ROOF (ML-5-70/2-FS), August 1933
MN-22-90	DAM - POWER HOUSE - STRUCTURAL DETAILS (ML-5-70/5-FS), August 1933
MN-22-91	DAM - POWER HOUSE - DOORS, WINDOWS & TYPICAL WALL SECTIONS (ML-5-70/6-FS), August 1933
MN-22-92	ELECTRICAL SYSTEM - CENTRAL CONTROL STATION - GENERAL ARRANGEMENT OF MACHINERY (ML-5-71/1-FS), January 1934

Note: Negatives #MN-22-1 through -62 are 4" x 5" format.
Negatives #MN-22-63 through -92 are 5" x 7" format.